

AMENDMENTS TO THE CLAIMS:

The following is a complete listing of the claims.

1. (Currently amended) An isolated peptide comprising phenylalanine, leucine, alanine, and lysine residues, wherein:
the peptide is about 5 to ~~about 23~~ 22 amino acids in length; and
the peptide is at least about ~~50%~~ 80% phenylalanine, leucine, alanine, and lysine residues.
2. (Original) The peptide of claim 1, wherein the peptide is about 5 to about 20 amino acids in length.
3. (Original) The peptide of claim 1, wherein the peptide consists essentially of phenylalanine, leucine, alanine, and lysine residues.
4. (Original) The peptide of claim 1, wherein the peptide consists of phenylalanine, leucine, alanine, and lysine residues.
5. (Original) The peptide of claim 1, wherein the first amino acid of the peptide is valine.
6. (Currently amended) The peptide of claim 1, wherein the peptide is at least about 70% identical to ~~SEQ ID NO:2, SEQ ID NO:16, SEQ ID NO:126, SEQ ID NO:4, SEQ ID NO:14, SEQ ID NO:17, SEQ ID NO:25, SEQ ID NO:43, SEQ ID NO:75, SEQ ID NO:84, SEQ ID NO:115, or SEQ ID NO:132.~~
7. (Currently amended) The peptide of claim 1, further defined as ~~SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:43, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:65, SEQ ID~~

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NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:70, ~~SEQ ID NO:71~~, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:84, ~~SEQ ID NO:85~~, SEQ ID NO:86, SEQ ID NO:87, ~~SEQ ID NO:90~~, ~~SEQ ID NO:91~~, ~~SEQ ID NO:92~~, ~~SEQ ID NO:93~~, SEQ ID NO:103, SEQ ID NO:106, ~~SEQ ID NO:108~~, ~~SEQ ID NO:112~~, SEQ ID NO:115, ~~SEQ ID NO:116~~, SEQ ID NO:126, ~~SEQ ID NO:127~~, SEQ ID NO:128, ~~SEQ ID NO:129~~, SEQ ID NO:131, ~~SEQ ID NO:132~~, ~~SEQ ID NO:137~~, SEQ ID NO:138, ~~SEQ ID NO:139~~, ~~SEQ ID NO:140~~, ~~SEQ ID NO:141~~, ~~SEQ ID NO:142~~, ~~SEQ ID NO:143~~, ~~SEQ ID NO:144~~, ~~SEQ ID NO:145~~, ~~SEQ ID NO:152~~, ~~SEQ ID NO:159~~, ~~SEQ ID NO:162~~, ~~SEQ ID NO:163~~, SEQ ID NO:164, or SEQ ID NO:165.

8.-52. (Cancelled)

53. (New) The peptide of claim 1, further defined as SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:44, SEQ ID NO:59, SEQ ID NO:62, SEQ ID NO:76, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:85, SEQ ID NO:88, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:98, SEQ ID NO:127, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:132, SEQ ID NO:137, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:142, or SEQ ID NO:143.
54. (New) The peptide of claim 1, further defined as SEQ ID NO:79, SEQ ID NO:89, SEQ ID NO:107, SEQ ID NO:110, SEQ ID NO:113, SEQ ID NO:114, and SEQ ID NO:153.
55. (New) The peptide of claim 1, wherein the peptide is 5 to about 15 amino acids in length.
56. (New) The peptide of claim 1, wherein the peptide is about 15 to about 20 amino acids in length.
57. (New) The peptide of claim 1, wherein the peptide is about 10 to about 15 amino acids in length.
58. (New) The peptide of claim 1, wherein the peptide is about 15 to 22 amino acids in length.
59. (New) An isolated peptide 23 amino acids in length comprising phenylalanine, leucine, alanine, and lysine residues, the peptide selected from the group consisting of SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:49, SEQ ID NO:55, SEQ ID NO:56, and SEQ ID NO:64.

60. (New) An isolated peptide comprising at least three residues selected from the group consisting of phenylalanine, leucine, alanine, and lysine, wherein:
the peptide is 5 to 22 amino acids in length;
the first amino acid is valine; and
the peptide is at least about 80% the at least three residues selected from the group consisting of phenylalanine, leucine, alanine, and lysine.
61. (New) The peptide of claim 60, selected from the group consisting of SEQ ID NO:30, SEQ ID NO:32, SEQ ID NO:116, SEQ ID NO:141, SEQ ID NO:152, SEQ ID NO:155, SEQ ID NO:156, and SEQ ID NO:157.
62. (New) An isolated peptide 23 amino acids in length comprising at least three residues selected from the group consisting of phenylalanine, leucine, alanine, and lysine, wherein:
the first amino acid is valine; and
the peptide is selected from the group consisting of SEQ ID NO:15, SEQ ID NO:154, SEQ ID NO:159, SEQ ID NO:160, and SEQ ID NO:161.
63. (New) An isolated peptide 4 amino acids in length comprising at least three residues selected from the group consisting of phenylalanine, leucine, alanine, and lysine, wherein the peptide is SEQ ID NO:144.